

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A urinary tract tissue graft composition, comprising:

a segment of small intestinal submucosa having a mucosal surface and  
a serosal surface; and

at least one ~~adult stem cell type~~ **bone marrow stromal cell** seeded on  
a surface of the segment of small intestinal submucosa, **wherein**  
**the at least one bone marrow stromal cell differentiates into**  
**a smooth muscle-like cell.**

2-5. (Canceled)

6. (Currently Amended) The urinary tract tissue graft composition of claim 1 wherein the at least one ~~adult stem cell type~~ **bone marrow stromal cell** exhibits three dimensional growth and matrix penetrance.

7. (Currently Amended) The urinary tract tissue graft composition of claim 1, wherein the at least one ~~adult stem cell type~~ **bone marrow stromal cell** is seeded on the mucosal surface of the segment of small intestinal submucosa.

8-9. (Canceled)

10. (Currently Amended) The urinary tract tissue graft composition of claim 1, wherein the at least one ~~adult stem cell type~~ **bone marrow stromal cell** is seeded on the serosal surface of the segment of small intestinal submucosa.

11-12. (Canceled)

13. (Original) The urinary tract tissue graft composition of claim 1 wherein the segment of small intestinal submucosa consists essentially of a distal ileal segment of small intestinal submucosa isolated from a mature adult pig.

14-23. (Canceled)

24. (Currently Amended) A method for providing a urinary tract tissue graft composition, comprising:

providing a tissue culture frame;

providing a segment of small intestinal submucosa having a mucosal surface and a serosal surface;

positioning the segment of small intestinal submucosa in the tissue culture frame such that the segment of small intestinal submucosa is suspended and held in a taut position by the tissue culture frame;

isolating and culturing at least one ~~adult stem cell type~~ **bone marrow stromal cell** from a tissue specimen of a subject; and

seeding the at least one ~~adult stem cell type~~ **bone marrow stromal cell** on a surface of the segment of small intestinal submucosa **such that the at least one bone marrow stromal cell differentiates into a smooth muscle-like cell and exhibits three-dimensional growth and matrix penetrance.**

25. (Original) The method of claim 24 wherein, in the step of providing a segment of small intestinal submucosa, the segment of small intestinal submucosa consists essentially of a distal ileal segment of small intestinal submucosa isolated from a mature adult pig.

26-43. (Canceled)

44. (Currently Amended) A method for repairing a damaged urinary tract tissue of a subject, comprising the steps of:

isolating and culturing at least one ~~adult stem cell type~~ **bone marrow**

**stromal cell** from a tissue specimen of a subject;

providing a segment of small intestinal submucosa having a mucosal surface and a serosal surface;

seeding the at least one ~~adult stem cell type~~ **bone marrow stromal cell**

on a surface of the segment of small intestinal submucosa;

allowing the segment of small intestinal submucosa having the at least

one ~~adult stem cell type~~ **bone marrow stromal cell** seeded

thereon to mature in culture such that the cells exhibit **at least**

**one bone marrow stromal cell differentiates into a smooth**

**muscle-like cell and exhibits** three dimensional growth and

matrix penetrance; and

contacting the damaged urinary tract tissue with the seeded segment of

small intestinal submucosa under conditions such that growth of

the urinary tract tissue occurs and the damaged urinary tract tissue

is repaired, thereby restoring urological function.

45. (Original) The method of claim 44 wherein, in the step of providing a segment of small intestinal submucosa, the segment of small intestinal

submucosa consists essentially of a distal ileal segment of small intestinal submucosa isolated from a mature adult pig.

46-55. (Canceled)